

ABSTRACT OF THE DISCLOSURE

5 An intelligent electronic device (IED) includes a base module having a power monitoring circuit operative to monitor a parameter of a portion of a power distribution system and generate an analog signal representative thereof. The base module also includes a processor coupled with the power monitoring circuit, the processor having an analog to digital converter operative to convert the analog signal to a digital signal representative thereof. The processor operates to implement a first power management functionality and generate first power management data. At least one of a display and a communications interface couple with the processor and communicate the first power management data external to the IED. A first interface couples with the processor and the communications interface. The first interface operates to receive a first external function module. The first external function module includes a second power management functionality, where the first interface further facilitates implementation of the second power management functionality.